

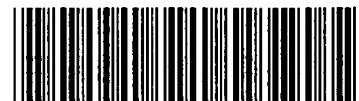
M. Moran

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1600

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/676,475A

DATE: 02/06/2003

TIME: 14:14:54

Input Set : A:\LJ4377.app

Output Set: N:\CRF4\02062003\I676475A.raw

3 <110> APPLICANT: Ruoslahti, Eekki  
 4 Pasqualini, Renata  
 5 Belotte, Daniel  
 7 <120> TITLE OF INVENTION: Methods of Identifying Lung Homing Molecules Using  
 8 Neutrophil Peptidase  
 10 <130> FILE REFERENCE: P-LA 4377  
**C--> 12 <140> CURRENT APPLICATION NUMBER: US/09/676,475A**  
**C--> 13 <141> CURRENT FILING DATE: 2000-09-29**  
 15 <140> PRIOR APPLICATION NUMBER: 09/042,107  
 16 <140> PRIOR FILING DATE: 1998-03-15  
 18 <140> NUMBER OF SEQ ID NOS: 450  
 20 <170> SOFTWARE: PatentIn Ver. 2.0  
 22 <210> SEQ ID NO: 1  
 23 <210> LENGTH: 13  
 24 <210> TYPE: PRT  
 25 <210> ORGANISM: Artificial Sequence  
 27 <210> FEATURE:  
 28 <210> OTHER INFORMATION: Description of Artificial Sequence: Synthetic  
 30 <400> SEQUENCE: 1  
 31 Cys Gly Phe Glu Cys Val Arg Gln Cys Pro Glu Arg Cys  
 32 1 5 10  
 33 <110> SEQ ID NO: 2  
 34 <110> LENGTH: 6  
 35 <110> TYPE: PRT  
 36 <110> ORGANISM: Artificial Sequence  
 38 <210> FEATURE:  
 41 <210> OTHER INFORMATION: Description of Artificial Sequence: Synthetic  
 43 <400> SEQUENCE: 1  
 44 Cys Gly Phe Glu Leu Glu Thr Cys  
 45 1 5  
 46 <110> SEQ ID NO: 3  
 47 <110> LENGTH: 13  
 48 <110> TYPE: PRT  
 49 <110> ORGANISM: Artificial Sequence  
 50 <210> FEATURE:  
 54 <210> OTHER INFORMATION: Description of Artificial Sequence: Synthetic  
 56 <400> SEQUENCE: 3  
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 58 1 5 10  
 59 <110> SEQ ID NO: 4  
 60 <110> LENGTH: 9  
 61 <110> TYPE: PRT  
 64 <210> ORGANISM: Artificial Sequence

## RAW SEQUENCE LISTING

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65 -&gt;0: FEATURE:

67 -&gt;0: OTHER INFORMATION: Description of Artificial Sequence: Synthetic

68 -&gt;0: SEQUENCE: 4

70 Ser Trp Cys Glu Ile Gly Trp Cys Arg

71 1 5

74 -&gt;10: SEQ ID NO: 5

75 -&gt;11: LENGTH: 7

76 -&gt;11: TYPE: PPT

77 -&gt;13: ORGANISM: Artificial Sequence

78 -&gt;10: FEATURE:

80 -&gt;0: OTHER INFORMATION: Description of Artificial Sequence: Synthetic

81 -&gt;0: SEQUENCE: 5

83 Cys Ser Cys Phe Arg Asp Val Cys Cys

84 1 5

87 -&gt;10: SEQ ID NO: 6

88 -&gt;11: LENGTH: 9

89 -&gt;11: TYPE: PPT

90 -&gt;13: ORGANISM: Artificial Sequence

91 -&gt;10: FEATURE:

93 -&gt;0: OTHER INFORMATION: Description of Artificial Sequence: Synthetic

94 -&gt;0: SEQUENCE: 6

96 Cys Arg Asp Val Val Ser Val Ile Cys

97 1 5

100 -&gt;10: SEQ ID NO: 7

101 -&gt;11: LENGTH: 7

102 -&gt;11: TYPE: PPT

103 -&gt;13: ORGANISM: Artificial Sequence

105 -&gt;10: FEATURE:

106 -&gt;0: OTHER INFORMATION: Description of Artificial Sequence: Synthetic

107 -&gt;0: SEQUENCE: 7

109 Leu Ser Pro Pro Tyr Met Trp

110 1 5

112 -&gt;10: SEQ ID NO: 8

114 -&gt;11: LENGTH: 5

115 -&gt;11: TYPE: PPT

116 -&gt;13: ORGANISM: Artificial Sequence

117 -&gt;10: FEATURE:

119 -&gt;0: OTHER INFORMATION: Description of Artificial Sequence: Synthetic

120 -&gt;0: SEQUENCE: 8

122 Gly Ile Gly Glu Val Glu Val Cys

123 1 5

126 -&gt;10: SEQ ID NO: 9

127 -&gt;11: LENGTH: 7

128 -&gt;11: TYPE: PPT

129 -&gt;13: ORGANISM: Artificial Sequence

131 -&gt;10: FEATURE:

133 -&gt;0: OTHER INFORMATION: Description of Artificial Sequence: Synthetic

134 -&gt;0: SEQUENCE: 9

135 Tyr Ser Gly Lys Trp Gly Lys

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/676,475A

DATE: 02/06/2003

TIME: 14:14:54

Input Set : A:\LJ4377.app

Output Set: N:\CRF4\02062003\I676475A.raw

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139 <12> TYPE: PPT  
140 <13> ORGANISM: Artificial Sequence  
141 <14> FEATURE:  
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143 <16> SEQUENCE: 10  
144 Glu Val Arg Ser Arg Leu Ser  
145 1 5  
146 <10> SEQ ID NO: 11  
147 <11> LENGTH: 7  
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149 <13> ORGANISM: Artificial Sequence  
150 <14> FEATURE:  
151 <15> OTHER INFORMATION: Description of Artificial Sequence: Synthetic  
152 <16> SEQUENCE: 11  
153 Arg Val Gly Leu Val Ala Arg  
154 1 5  
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157 <12> TYPE: PPT  
158 <13> ORGANISM: Artificial Sequence  
159 <14> FEATURE:  
160 <15> OTHER INFORMATION: Description of Artificial Sequence: Synthetic  
161 <16> SEQUENCE: 12  
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163 1 5  
164 <10> SEQ ID NO: 13  
165 <11> LENGTH: 9  
166 <12> TYPE: PPT  
167 <13> ORGANISM: Artificial Sequence  
168 <14> FEATURE:  
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184 <12> TYPE: PPT  
185 <13> ORGANISM: Artificial Sequence  
186 <14> FEATURE:  
187 <15> OTHER INFORMATION: Description of Artificial Sequence: Synthetic  
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189 Cys Gly Glu Phe Lys Val Gly Cys  
190 1 5  
191 <10> SEQ ID NO: 15  
192 <11> LENGTH: 8  
193 <12> TYPE: PPT

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/676,475A

DATE: 02/06/2003

TIME: 14:14:54

Input Set : A:\LJ4377.app

Output Set: N:\CRF4\02062003\I676475A.raw

207 <210> ORGANISM: Artificial Sequence  
 208 <220> FEATURE:  
 209 <213> OTHER INFORMATION: Description of Artificial Sequence: Synthetic  
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 211 Cys Thr Ile Arg Asp Arg Asn Cys  
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 213 <10> SEQ ID NO: 16  
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 216 <210> ORGANISM: Artificial Sequence  
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 218 <213> OTHER INFORMATION: Description of Artificial Sequence: Synthetic  
 219 <400> SEQUENCE: 16  
 220 Cys Ala Gly Glu Val Glu Val Cys  
 221 1 5  
 222 <10> SEQ ID NO: 17  
 223 <11> LENGTH: 21  
 224 <12> TYPE: PPT  
 225 <210> ORGANISM: Artificial Sequence  
 226 <220> FEATURE:  
 227 <13> NAME/KEY: SITE  
 228 <14> LOCATION: (1)...(10)  
 229 <213> OTHER INFORMATION: Xaa may be present or absent  
 230 <220> FEATURE:  
 231 <13> NAME/KEY: SITE  
 232 <14> LOCATION: (14)...(23)  
 233 <213> OTHER INFORMATION: Xaa may be present or absent.  
 234 <220> FEATURE:  
 235 <213> OTHER INFORMATION: Description of Artificial Sequence: Synthetic  
 236 <400> SEQUENCE: 17

W--&gt; 249 Xaa Gly Phe Glu Xaa Xaa Xaa

237 1 5 10 15  
 238 Xaa Xaa Xaa Xaa Xaa Xaa Xaa  
 239 10  
 240 <10> SEQ ID NO: 18  
 241 <11> LENGTH: 7  
 242 <12> TYPE: PPT  
 243 <210> ORGANISM: Artificial Sequence  
 244 <220> FEATURE:  
 245 <213> OTHER INFORMATION: Description of Artificial Sequence: Synthetic  
 246 <400> SEQUENCE: 18  
 247 Lys Cys Thr Ala Met Thr Glu  
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 249 <10> SEQ ID NO: 19  
 250 <11> LENGTH: 8  
 251 <12> TYPE: PPT  
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 253 <220> FEATURE:  
 254 <213> OTHER INFORMATION: Description of Artificial Sequence: Synthetic

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/676,475A

DATE: 02/06/2003

TIME: 14:14:54

Input Set : A:\LJ4377.app

Output Set: N:\CRF4\02062003\I676475A.raw

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278 Gly Ile Ser Ala Leu Val Leu Ser  
279 1 5  
280 <210> SEQ ID NO: 10  
281 <211> LENGTH: 8  
282 <212> TYPE: PRT  
283 <213> ORGANISM: Artificial Sequence  
287 <214> FEATURE:  
288 <215> OTHER INFORMATION: Description of Artificial Sequence: Synthetic  
289 <400> SEQUENCE: 10  
290 Cys Gly Lys Arg Tyr Arg Asn Cys  
291 1 5  
292 <210> SEQ ID NO: 11  
293 <211> LENGTH: 7  
294 <212> TYPE: PRT  
295 <213> ORGANISM: Artificial Sequence  
300 <214> FEATURE:  
301 <215> OTHER INFORMATION: Description of Artificial Sequence: Synthetic  
302 <400> SEQUENCE: 11  
304 Ser Met Ile Ile Ala Arg Leu  
305 1 5  
306 <210> SEQ ID NO: 12  
307 <211> LENGTH: 7  
308 <212> TYPE: PRT  
311 <213> ORGANISM: Artificial Sequence  
312 <214> FEATURE:  
314 <215> OTHER INFORMATION: Description of Artificial Sequence: Synthetic  
316 <400> SEQUENCE: 11  
317 Val Ser Phe Leu Glu Tyr Arg  
318 1 5  
319 <210> SEQ ID NO: 13  
320 <211> LENGTH: 9  
321 <212> TYPE: PRT  
324 <213> ORGANISM: Artificial Sequence  
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330 <215> NAME/KEY: UNSURE  
331 <216> LOCATION: (1)..(2)  
332 <217> OTHER INFORMATION: Unsure  
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336 <216> LOCATION: (4)..(7)  
337 <217> OTHER INFORMATION: Unsure  
339 <214> FEATURE:  
340 <215> NAME/KEY: UNSURE  
341 <216> LOCATION: (8)  
342 <217> OTHER INFORMATION: Unsure  
344 <400> SEQUENCE: 13

RAW SEQUENCE LISTING ERROR SUMMARY  
PATENT APPLICATION: US/09/676,475A

DATE: 02/06/2003  
TIME: 14:14:55

Input Set : A:\LJ4377.app  
Output Set : N:\CRF4\02062003\I676475A.raw

**Please Note:**

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:17; Kaa Pos. 1,2,,3,4,5,6,7,8,9,10,14,15,16,17,18,19,20,21,22,23  
Seq#:22; Kaa Pos. 1,2,3,5,6,7,9  
Seq#:24; Kaa Pos. 2,,3,4,5,6,7,9  
Seq#:25; Kaa Pos. 1,,2,3,4,6,7,8,10,11,12  
Seq#:26; Kaa Pos. 2,,3,4,5,6,7  
Seq#:27; Kaa Pos. 1,2,,3,4,5,6,7  
Seq#:28; Kaa Pos. 1,2,,3,4,5,6,7,9,10,11  
Seq#:29; Kaa Pos. 4,5,,7,,9,10,11,13,14,16,17,19,20  
Seq#:30; Kaa Pos. 1,,2,3  
Seq#:31; Kaa Pos. 2,4  
Seq#:32; Kaa Pos. 1  
Seq#:33; Kaa Pos. 3  
Seq#:34; Kaa Pos. 3  
Seq#:35; Kaa Pos. 1  
Seq#:401; Kaa Pos. 1,,2,3,4,5,6,7,8,9,10,14,15,16,17,18,19,20,21,22,23  
Seq#:402; Kaa Pos. 1,,2,3,4,5,6,7,8,9,10,15,16,17,18,19,20,21,22,23  
Seq#:403; Kaa Pos. 6,7,8,9,10,11,12,13,14,15  
Seq#:404; Kaa Pos. 1,2,3,4,5,6,7,8,9,10,14,15,16,17,18,19,20,21,22,23  
Seq#:405; Kaa Pos. 1,,2,3,4,5,6,7,8,9,10,14,15,16,17,18,19,20,21,22,23

Invalid Line Length:

The rules require that a line not exceed 72 characters in length. This includes spaces.

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Seq#:1; Line(s) 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23
Seq#:1; Line(s) 24,25,26,27,28,29,30,31,32,33,34,35
Seq#:1; Line(s) 36,37,38,39,40,41,42,43,44,45,46,47,48
Seq#:2; Line(s) 49,50,51,52,53,54,55,56,57,58,59,60,61
Seq#:4; Line(s) 62,63,64,65,66,67,68,69,70,71,72,73,74
Seq#:5; Line(s) 75,76,77,78,79,80,81,82,83,84,85,86,87
Seq#:6; Line(s) 88,89,90,91,92,93,94,95,96,97,98,99,100
Seq#:7; Line(s) 101,102,103,104,105,106,107,108,109,110,111,112,113
Seq#:8; Line(s) 114,115,116,117,118,119,1.0,121,122,1.1,124,125,1.2
Seq#:9; Line(s) 126,127,128,129,130,131,132,133,134,135,136,137,138,139
Seq#:10; Line(s) 140,141,142,143,144,145,146,147,148,149,150,151,152
Seq#:11; Line(s) 153,154,155,156,157,158,159,160,161,162,163,164,165
Seq#:12; Line(s) 166,167,168,169,170,171,172,173,174,175,176,177,178
Seq#:13; Line(s) 179,180,181,182,183,184,185,186,187,188,189,190,191
Seq#:14; Line(s) 192,193,194,195,196,197,198,199,200,.01,202,203,204
Seq#:15; Line(s) 215,216,217,218,219,220,221,222,223,224,225,226,227,228,229,230
Seq#:16; Line(s) 231,232,233,234,235,236,237,238,239,240,241,242,243,244,245
Seq#:17; Line(s) 245,246,247,248,249,.01,251,252,253,254,255,256
Seq#:18; Line(s) 257,258,259,260,261,262,263,264,265,266,267,268,269

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**RAW SEQUENCE LISTING ERROR SUMMARY**  
**PATENT APPLICATION: US/09/676,475A**

DATE: 02/06/2003  
 TIME: 14:14:55

Input Set : A:\LJ4377.app  
 Output Set: N:\CRF4\02062003\I676475A.raw

Seq#:19; Line(s) 270,271,272,273,274,275,276,277,278,279,280,281,282  
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 Seq#:21; Line(s) 296,297,298,299,300,301,302,303,304,305,306,307,308  
 Seq#:22; Line(s) 309,310,311,312,313,314,315,316,317,318,319,320,321  
 Seq#:23; Line(s) 322,323,324,325,326,327,328,329,330,331,332,333,334,335  
 Seq#:24; Line(s) 336,337,338,339,340,341,342,343,344,345,346,347,348,349  
 Seq#:25; Line(s) 350,351,352,353,354,355,356,357,358,359,360,361,362,363  
 Seq#:26; Line(s) 364,365,366,367  
 Seq#:27; Line(s) 368,369,370,371,372,373,374,375,376,377,378,379,380,381  
 Seq#:28; Line(s) 382,383,384,385,386,387,388,389,390,391,392,393,394,395  
 Seq#:29; Line(s) 396,397,398,399,400,401,402,403,404,405,406,407,408,409  
 Seq#:30; Line(s) 410,411,412,413  
 Seq#:31; Line(s) 414,415,416,417,418,419,420,421,422,423,424,425,426  
 Seq#:32; Line(s) 427,428,429,430,431,432,433,434,435,436,437,438,439,440  
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 Seq#:37; Line(s) 475,476,477,478,479,480,481,482,483,484,485,486,487,488  
 Seq#:38; Line(s) 489,490,491  
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 Seq#:43; Line(s) 544,545,546,547,548,549,550,551,552,553,554,555,556  
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 Seq#:45; Line(s) 570,571,572,573,574,575,576,577,578,579,580,581,582  
 Seq#:46; Line(s) 583,584,585,586,587,588,589,590,591,592,593,594,595  
 Seq#:47; Line(s) 596,597,598,599,600,601,602,603,604,605,606,607,608  
 Seq#:48; Line(s) 609,610,611,612,613,614,615,616,617,618,619,620,621  
 Seq#:49; Line(s) 622,623,624,625,626,627,628,629,630,631,632,633,634

## VERIFICATION SUMMARY

PATENT APPLICATION: US/09/676,475A

DATE: 02/06/2003

TIME: 14:14:55

Input Set : A:\LJ4377.app

Output Set: N:\CRF4\02062003\I676475A.raw

L:12 M:270 C: Current Application Number differs, Replaced Application Number  
L:13 M:271 C: Current Filing Date differs, Replaced Current Filing Date  
L:243 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:0  
M:341 Repeated in SeqNo=17  
L:343 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21 after pos.:0  
L:365 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:24 after pos.:0  
L:341 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:25 after pos.:0  
L:409 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26 after pos.:0  
L:456 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27 after pos.:0  
L:470 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:30 after pos.:0  
L:489 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:31 after pos.:0  
L:4405 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:332 after pos.:0  
L:4584 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:345 after pos.:0  
L:4862 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:366 after pos.:0  
L:4880 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:377 after pos.:0  
L:4949 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:372 after pos.:0  
L:5370 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:404 after pos.:0  
L:5751 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:431 after pos.:0  
M:341 Repeated in SeqNo=431  
L:5757 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:432 after pos.:0  
M:341 Repeated in SeqNo=432  
L:5778 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:433 after pos.:0  
L:5801 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:434 after pos.:0  
M:341 Repeated in SeqNo=434  
L:5840 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:436 after pos.:0  
M:341 Repeated in SeqNo=436